

IMPROVEMENT OF ETHANOL PRODUCTION FROM LIGNOCELLULOSE

ABSTRACT

This invention presents a method of improving enzymatic degradation of lignocellulose, as in the 5 production of ethanol from lignocellulosic material, through the use of ultrasonic treatment. The invention shows that ultrasonic treatment reduces cellulase requirements by 1/3 to 1/2. With the cost of enzymes being a major problem in the cost-effective production of ethanol 10 from lignocellulosic material, this invention presents a significant improvement over presently available methods.

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